



## State of Utah

### Department of Natural Resources

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March 17, 2006

CERTIFIED RETURN RECEIPT  
7004 2510 0004 1824 3588

Mountain Valley Stone, Inc.  
P.O. Box 985  
2275 South Daniels Road  
Heber City, Utah 84032

Subject: Initial Review of Revised Notice of Intention to Commence Large Mining Operations, Mountain Valley Stone, Inc., Browns Canyon Quarry, M/043/019, Summit County, Utah

Dear Mr. Hicken:

The Division has completed our review of your draft Notice of Intention to Revise Large Mining Operations for the Browns Canyon Quarry, located in Summit County, Utah, received January 20, 2006. After reviewing the information, the Division has determined that the Notice is considered a Revision. The attached comments will need to be addressed before tentative approval may be granted and notice can be published.

The comments are listed under the applicable Minerals Rule heading; please format your response in a similar fashion and **address only those items requested in the attached technical review** by sending replacement pages of the original mining notice **using redline and strikeout text**. Please include Form MR-REV (available on the Division's web page (<http://ogm.ut.gov>)) when submitting this response. After the notice is determined technically complete, we will ask that you send us two clean copies of the complete and corrected plan. Upon final approval of the permit, we will return one copy stamped "approved" for your records.

If you have any questions in this regard please contact me, or Lynn Kunzler of the Minerals Staff. If you wish to arrange a meeting to discuss this review, please contact us at your earliest convenience. Thank you for your cooperation in completing this permitting action.

Sincerely,

Susan M. White  
Mining Program Coordinator

SMW:LK:pb  
Attachment: Review  
P:\GROUPS\MINERALS\WP\M043-Summit\M0430019-BrownsCyn-MVS\Final\REV1-03172006.doc

## REVIEW OF AMENDED NOTICE OF INTENTION TO COMMENCE LARGE MINING OPERATIONS

Mountain Valley Stone, Inc.  
Browns Canyon Quarry

M/043/019  
March 16, 2006

### **R647-4-105 - Maps, Drawings & Photographs**

*105.1 Topographic base map, boundaries, pre-act disturbance*

Map SP-1 needs to be amended to include the additional acreage. (DJ)

The maps do not clearly show the acreages to be disturbed, what is currently disturbed and on sheet SP-1, the area tabulations are not clearly shown on this plate. A reclamation treatments plate needs to be generated to show the final disposition of the property following mining, showing drainage, remaining pits, highwall areas and any remaining features. (TM)

*105.2 Surface facilities map*

As detailed under 105.2a the map of surface facilities should show stationary mining & processing equipment, roads, proposed drainage control structures, and location of topsoil storage areas, overburden/waste dumps, disposal areas for overburden. None of these features are shown on the surface facilities map. Please add features that apply to this site. (DJ)

Figure 2 – Surface Facilities Map shows a scale and scale house but SP-1 – Surface Facilities Map does not show this feature. Please make appropriate changes so that the two maps to agree. (DJ)

*105.3 Drawings or Cross Sections (slopes, roads, pads, etc.)*

Cross-sections through the expansion area should be included showing the original surface, surface after mining and surface after reclamation. A minimum of two sections should be submitted, one in a east-west and one in a north- south direction. (DJ)

The Site Reclamation Map (SP-2) for the site needs to be amended to include the expansion area. Reclamation treatments for this additional area need to be shown. (DJ)

### **R647-4-106 - Operation Plan**

*106.2 Type of operations conducted, mining method, processing etc.*

The application indicates that additional mining/processing equipment will be brought on site. Please show the approximate location of the processing equipment. (DJ)

*106.3 Estimated acreages disturbed, reclaimed, annually.*

The plan indicates that 33 acres will be disturbed at the end of this mining plan. The chart shown on Map SP-1 indicates that the life of mine area is only 30.4 acres. Please change this map to agree with the text. (DJ)

See comments under R647-5-105.1 related to supplying accurate acreages that are shown on the appropriate figures. Clarify what is currently disturbed; what will be disturbed in the future; and what will be reclaimed. (TM)

*106.5 Existing soil types, location, amount*

The application indicates that areas from which soil can be salvaged are shown on map SP-1. Map SP-1 only shows the existing permitted area, not the expansion area. Is it correct to assume that there is will be a minimum of 6 inches of soil salvage from all disturbed areas? Please provide a map of the expansion area showing where soil materials will be salvaged and stockpiled. (LK)

*106.6 Plan for protecting & redepositing soils*

Please revise the acreage for the areas from which soil material can be salvaged. The figure reported is for the original permit area (see comments under R647-4-106.5). (LK)

*106.8 Depth to groundwater, extent of overburden, geology*

It states a well will be drilled adjacent to the mine and up gradient from a wetland. What is the depth to groundwater and the relationship between the water level in down gradient wetlands and the geologic formation in which the well will be developed? If these surface water sources are to be used as indicators of the ground water levels, then please relate this information to the water level of the proposed well. (TM)

*106.9 Location & size of ore, waste, tailings, ponds*

The revised plan references Map SP-1 for these features. Map SP-1 only shows these features for the original permit area, not the proposed area. Please provide a map that shows these features for the proposed area. (LK)

**R647-4-107 - Operation Practices**

*107.1 Public safety & welfare*

The application states, "All blasting is done by contract such that no powder magazines are kept on site." Map SP-1 shows two powder magazines on site. The map should be changed to remove this feature. (DJ)

*107.2 Drainages to minimize damage*

The plan shows a 10-foot ditch and embankment for storm water detention and erosion control on the down gradient side of the property but makes no mention of how this will be constructed and maintained during operation. Please elaborate on the functionality of this drainage control during operations and how it will handle surface water runoff. It appears to run down a hill with no outlet. Perhaps a check dam or sediment pond structure to treat storm water at this downhill point would be appropriate. (TM)

*107.3 Erosion control & sediment control*

The plan shows various forms of erosion control, but do not show where they will be placed on site or placed when the site is reclaimed. Please show the placement of the structures and what type of structure on the appropriate plate. The Division prefers loose rock check dams over straw bales, using a gradation of 6-24 inch rock keyed in a trench below the structure

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making sure to keep the center of the structure the lowest point of the structure. Please protect the outlet below the structure and when placing them in series the toe of the up gradient structure will match the crest of the down gradient structure. (TM)

#### **R647-4-108 - Hole Plugging Requirements**

The plan indicates that a water well will be drilled on site. The surety should contain an amount sufficient to properly close this well at the close of the quarry. (DJ)

#### **R647-4-110 - Reclamation Plan**

##### *110.2 Roads, highwalls, slopes, drainages, pits, etc., reclaimed*

With regards to reclamation of dump slopes, the operator needs to be aware that to push these dumps to 3h:1v slope will expand the footprint. Dumps will need to be constructed with a 3h:1v slope, or kept at sufficient distance from the wetlands so that the wetland buffer will not be impacted during reclamation. (DJ & LK)

Please describe how drainages will be reconstructed during reclamation. (TM)

##### *110.5 Revegetation planting program*

Acreage figures listed in this section reflect the current approved plan, not the amended area. Please provide new acreage figures for the various reclamation treatments for the proposed amended area. (LK)

#### **R647-4-111 - Reclamation Practices**

##### *111.2 Reclamation of natural channels*

The plan does not state that riprap will be used to control erosion in reclaimed drainages. The plan needs to identify the location of reclaimed drainages, what size they will be, and how the runoff will leave the reclaimed site in a controlled manner. (TM)

##### *111.3 Erosion & sediment control*

Where will erosion control structures be placed during reclamation? Show locations on a map. (TM)

#### **R647-4-113 - Surety**

Reclamation cost estimates will be verified once the revised plan is complete. (DJ)

# DOCUMENT TRACKING SHEET

USE THIS SHEET WHEN ITEM (S) SHOULD BE SCANNED TO SEVERAL PLACES, SUCH AS A BOND RELEASE FOR AN OUTGOING LETTER. THE LETTER WILL GO IN OUTGOING WITH THIS SHEET BEHIND IT REFERENCEING THE BOND RELEASE FINDINGS IS IN INTERNAL AND THE RECORD # IS \_\_\_\_.

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